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INTEGRAL CAPILLARY CONCRETE WATERPROOFING SYSTEMS

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INSIDE THIS ISSUE

- Company News
- Feature - Penetron Facility Upgrade
- Case Study - Penetron Admix in salt water environments
- VIVO City, Singapore
- Olefeni Industry, Athens
- Penetron Worldwide
- Hellenic Gyros Industry, Athens
- Qinghuangdao Olympic Stadium, China
- Albuquerque, NM - Coors Sanitary Sewer Station
- Texas Dot - State Highway 130
- Notice to Readers

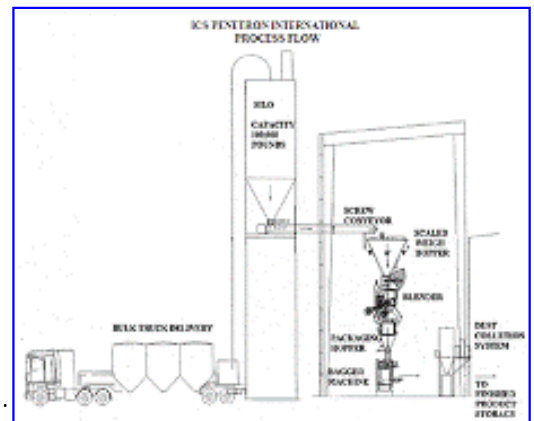
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Penetron Industry Newsletter

January 2006

Greetings,

Welcome to another edition of the Penetron concrete waterproofing update. Facing increasing global demand for Penetron products as well as sophisticated approval and supervision systems for concrete admixture manufacturers, we embarked on a major upgrade of the Penetron facility in early 2005.



[\(Click here to enlarge image\)](#)

In this newsletter, we are glad to inform you of these upgrades which contributed to Penetron being awarded the EC Certificate of quality system approval, aka CE-Mark, which is now mandatory for all concrete admixtures to be used in the European Union, as well as the necessary production capacity to continue to meet global demand for Penetron products.

Company News - Penetron awarded CE Mark

The CE mark is a declaration on manufactured products sold in the European Union (EU) that the item meets all the requirements of relevant EU directives. It is now mandatory for concrete admixtures in the European Union.

The approval relates both to the company's management system and the product and both were extensively investigated at Penetron's facility.

As such, Penetron Admix was and will continue to be tested in accordance with the following European Norms;



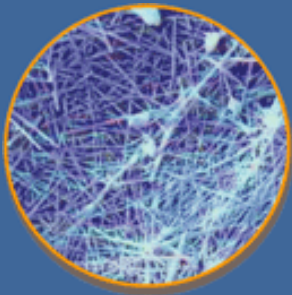
- EN480-10 chloride content, 4 times /year
- EN480-12 alkali content, 2 times /year
- EN480-5 capillary absorption, 2 times /year
- EN12350-7 air content in fresh concrete, 1 time /year
- EN12390-3 28 day compressive strength, 1 time /year

With every batch produced, the product must also be tested for homogeneity, color and dry material content.

The approval was issued on January 11, 2006 and as a result Penetron Admix can continue to be used throughout the European Union.

FAST FACTS

Penetron crystals have been found as deep as 1 meter into the concrete



An intricate web of insoluble crystals forms in the presence of Penetron and H₂O creating a permanent protective seal



Feature - Penetron facility upgrade

Our 3100 sqm facility in Fairless Hills, Pennsylvania has now been upgraded to meet the increased demand for Penetron products in the market.

The plant has been equipped with state-of-the-art blending technology ensuring accurate distribution without any product degradation. Upgrades

also include the addition of six independent bulk storage silos, having a total capacity to hold 300 tons of raw materials.

We felt this added capacity was necessary to allow for maximum flexibility when formulating batches for production.

Our entire manufacturing process is now completely integrated and computerized by means of digital weighing load cells and a production batching system that specifies the exact formula, ingredients, weight etc to be used. Any weight or ingredient deviation automatically shuts down the system. All batches are coded and all documentation relating to each batch is automatically stored in digital form.

All packaging at the facility is performed using auger feeds thereby eliminating any potential product segregation during packing. The filled bags are also digitally controlled to ensure accurate weight.



CASE STUDY - Penetron Admix in salt water environments



VIVO City, Singapore



Derived from the word 'vivacity', **VivoCity** evokes a lifestyle experience that is vibrant, stimulating and accessible to everyone; a place bubbling with energy and flowing with vitality. Scheduled for completion in the 4th quarter of 2006, VivoCity will be the centerpiece of the entire Singapore Harbour Front Precinct. With more than 1 million sq ft of space, VivoCity will be the largest retail and lifestyle destination in Singapore. Offering a diverse mix of up to 450 retail, food and beverage and entertainment outlets, as

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TÜV Rheinland of North America

well as a new concept hypermarket. VivoCity will also boast a stimulating mix of year-round events and activities that will define it as Singapore's ultimate lifestyle destination.

Designed by renowned Japanese architect, Toyo Ito, VivoCity's unique design incorporates breathtaking open spaces for waterfront alfresco dining and the staging of world-class events and performances in a 1000-seat amphitheatre.

Adjacent to the sea and hence subject to chloride attack, the project was in need of a high-performance waterproofing product for the basement structure. Hence, the engineers decided to go with the market leader for crystalline waterproofing in Singapore, Penetron Admix. Since then, 45'000 m3 of concrete have been successfully waterproofed with Penetron Admix.

Olefini Industry, Athens

Olefini, a Greek manufacturer of air conditioning systems, had a problem at its new plant near the Mediterranean sea. A concrete ramp, located 3m under the sea level, was under high pressure of seawater. The concrete was full of cracks through which seawater was coming in. Repairs had been attempted with conventional cement based waterproofing products totaling a thickness of 2 cm, but the problem remained.



Penetron Hellas came in and solved the problem with Penetron and Peneplug. A drain pipe was used to alleviate water pressure during the waterproofing process. The application was a complete success (2005).

Many more Penetron salt water references are available upon request.

Penetron Worldwide

HELLENIC GYROS INDUSTRY - Athens

This Greek meat-processing company had a newly built potable water tank and sewage tank at its facility in Athens, each with a size of about 500m2. They decided to waterproof these tanks as a precaution. Penetron Hellas treated the construction joints with Penecrete mortar



and the whole concrete surface was coated with Penetron. The application was done in 2004 and no problems have been reported since.

QINGHUANGDAO OLYMPIC STADIUM - China

With the Beijing 2008 Olympics coming closer, the necessary infrastructure is being put in place at a tremendous pace. This stadium in Qinghuangdao, near Beijing, will host part of the events and play a significant role in the Olympics.

This being a prestigious project for China, over 10'000 sqm of tribune stands have been completely coated with Penetron as a precaution for water leakage to areas underneath.



ALBUQUERQUE, NM - Coors Sanitary Sewer Vacuum Station

The Army Corps of Engineers recently approved Penetron for use as the waterproofing system of choice for the concrete structures of the Coors Sanitary Sewer Vacuum Station in Albuquerque, NM. Funded through the Water Resources development Act and spearheaded by US Senator Pete

Domenici this project represents cooperative efforts to alleviate some of New Mexico's water and environmental problems. Penetron is proud to be a part of this and other ongoing projects to aid the city of Albuquerque and Bernalillo County to



improve the water and wastewater infrastructure, promote a clean environment, decrease contamination possibilities and encourage water savings.

TEXAS DOT - State Highway 130



The Penetron system has been chosen to waterproof portions of the State Highway 130 in Texas. The new SH 130, a project of the Texas Department of Transportation, will be a 49-mile, four-lane tollway and will be the largest element of the Central Texas Turnpike System. The TxDOT has a long-established commitment to environmental protection and to achieve the project's environmental goals a special team has been assembled to review design and monitor construction to minimize impact on the environment.

Notice to Readers

You are receiving this newsletter because you have either subscribed or been pre-subscribed by someone in our global network. Many Penetron aficionados have been asking us to regularly update them with project news, new product applications, company news etc. Any suggestions or [feedback](#) you may have is appreciated. You may also send this newsletter to others you believe will value this information. Just click on the "Send to a friend link" on the bottom left. Penetron products are currently available in over 60 countries. Should you wish to be contacted by a local representative and learn how Penetron can solve your concrete problems, please [contact us](#).

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